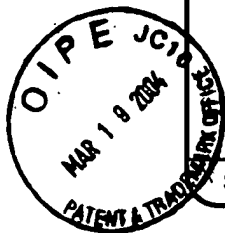


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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 4

Complete if Known

Application Number	10/748,731
Filing Date	Dec. 29, 2003
First Named Inventor	Heit
Group Art Unit	3714
Examiner Name	Rovnak, J.
Attorney Docket Number	

U.S. PATENT DOCUMENTS

Examiner Initials [*]	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
J		Re. 33,662		Blair et al.	08/13/1991	
J		4,341,385		Doyle et al.	07/27/1982	
J		5,013,047		Schwab	05/07/1991	
J		5,023,408		Murakami et al.	06/11/1991	
J		5,082,286		Ryan et al.	01/21/1992	
J		5,169,516		Carr	12/08/1992	
J		5,190,285		Levy et al.	03/02/1993	
J		5,330,380		McDarren et al.	07/19/1994	
J		5,435,573		Oakford	07/25/1995	
J		5,731,801		Fukuzaki	03/24/1998	
J		889,515		Foley	06-02-1908	
J		3,052,041		Luxton et al.	09-04-1962	
J		4,968,255		Lee et al.	11-06-1990	
J		5,088,928		Chan	02-18-1992	
J		5,188,368		Ryan	02-23-1993	
J		5,129,654		Bogner	07-14-1992	
J		5,275,567		Whitfield	01-04-1994	
J		5,823,782		Marcus et al.	10-20-1998	
J		5,855,483		Collins et al.	01-05-1999	
J		5,402,151		Duwaer	03-28-1995	

FOREIGN PATENT DOCUMENTS

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
J			DE 3813779		Bauer et al.	11/02/89		
J			EP606790		Lebensfeld et al.	07/20/94		✓
J			FR2607400		Chacun et al.	06/03/88		
J			SU844011			07/07/81		
J			GB2103943		Blenkinsop et al.	03/02/83		✓
J			GB2237514		Taylor	05/08/91		✓
J	X		SE7812400					
J	X		20792		Cizmadia			
J			WO 9603188A1		Gilboa	02-08-1996		
J			DE4207534A1		Hegener	09-16-1993		✓

Examiner Signature <i>[Signature]</i>	Date Considered <i>6/10/04</i>
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Sheet 2 of 4

[illegible]

John R. Rumsfeld

6/10/04

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Sheet	3	of	4		

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		Number	Kind Code ² (if known)			
<i>J</i>		5,134,388		Murakami	07-28-1992	
<i>J</i>		4,391,447		Dudley	07-05-1983	
<i>J</i>		5,188,533		Wood	02-23-1993	
<i>J</i>		5,511,980		Wood	04-30-1996	
<i>J</i>		5,009,603		Fong et al.	04-23-1991	
<i>J</i>		4,023,807		Santianni	05-17-1977	
<i>J</i>		3,798,792		Askew	03-26-1974	
<i>J</i>		3,795,063		Nelson	03-05-1974	
<i>J</i>		3,665,618		Hahn	05-30-1972	
<i>J</i>		3,654,706		Perrella	04-11-1972	
<i>J</i>		3,314,165		Shreck et al.	04-18-1967	
<i>J</i>		4,550,250		Mueller et al.	10-29-1985	
<i>J</i>		5,481,265		Russell	01-02-1996	
<i>J</i>		5,651,548		French et al.	07-29-1997	
<i>J</i>		5,991,693		Zalewski	11-23-1999	
<i>J</i>		3,920,124		Patterson	11-18-1975	
<i>J</i>		4,028,537		Snow	06-07-1977	
<i>J</i>		5,019,714		Knowles	05-28-1991	
<i>J</i>		5,252,814		Tooley	10-12-1993	
<i>J</i>		5,298,731		Ett	03-29-1994	

FOREIGN PATENT DOCUMENTS								
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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
J			SU 878324		Artsybashev	02-19-1980		✓
J			JP 405177056A		Miyamoto et al.	07-20-1993		✓
J			JP 354062033A		Koike	05-18-1979		✓
J			EP0310766 A1		Wai-Kuen Lee et al.	04-12-1989		✓

Examiner Signature <i>John R. R...</i>	Date Considered <i>6/10/04</i>
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JH JH JH JH JH JH JH JH JH JH JH JH		5,540,301		Dumont	07-30-1996	
		5,252,814		Tooley	10-12-1993	
		5,302,132		Corder	04-12-1994	
		5,618,182		Thomas	04-08-1997	
		6,052,117		Ohara et al.	04-18-2000	
		6,464,503		Heit	10-15-2002	
		4,176,470		Fosner et al.	12-04-1979	
		4,287,568		Lester	09-01-1981	
		4,836,075		Armstrong	06-06-1989	
		4,936,185		Yamauchi et al.	06-26-1990	
		5,349,129		Wisniewski et al.	09-20-1994	
		5,451,178		Yorozu et al.	09-19-1995	
	5,213,510		Freeman	05-25-1993		
	5,120,065		Driscoll et al.	06-09-1992		

FOREIGN PATENT DOCUMENTS								
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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
JH			JP 5-68753A			03-23-1993		✓
JH			FR 2563745		Serina	05-07-1984		
JH			EP 471572 A1		Hareli	02-19-1992		✓

Examiner Signature John R. ...	Date Considered 6/10/04
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